SY-P4I845PEISA
SY-P4I845GEISA
Motherboard

Quick Start Guide

Introduction
Hardware Installation
Quick BIOS Setup
The SOYO CD
Davicom Onboard LAN Driver
USB2.0 Driver Installation

1. 3.3V AGP card (essentially this means all AGP 1X and AGP 2X cards) are not supported. Only 1.5V AGP cards essentially this means any card that supports AGP 4X or higher) can be used in this mainboard.

2. Please read the user guide before proceeding with your installation. Serious damage may occur if the procedure is not followed properly.

3. If you have any problem getting your system to work, please follow the troubleshooting tips on page 24 of your user guide.

4. For immediate Technical questions, please visit http://www.soyousa.com/support and http://www.soyousa.com/kb.

5. Make sure you use a power supply for P4 motherboard (an ATX 12V power supply), preferably 350 watts or higher.

SY-P4I845PEISA/P4I845GEISA Motherboard

mPGA Socket 478 processors
Intel 845PE/GE AGP/PCI/ISA Motherboard
533/400 MHz Front Side Bus supported
ATX Form Factor

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About This Guide:
This Quick Start Guide can help system manufacturers and end users in setting up and installing the motherboard. Information in this guide has been carefully checked for reliability; however, to the correctness of the contents there is no guarantee given. The information in this document is subject to amend without notice.
For further information, please visit our **Web Site** on the Internet. The address is **"http://www.soyo.com.tw".**

P4I845PEISA/GEISA Serial - Version 1.1 - Edition: August 2003

* These specifications are subject to change without notice

1 Introduction

Congratulations on your purchase of the **SY-P4I845PEISA/GEISA** Motherboard. This *Quick Start Guide* illustrates the steps for installing and setting up your new Motherboard.

This guide provides all users with the basic steps of Motherboard setting and operation. For further information, please refer to the *SY-P4I845PEISA/GEISA Motherboard User's Manual* that came with your Motherboard.

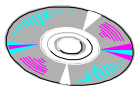
Unpacking

When unpacking the Motherboard, check for the following items:

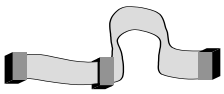
- The SY-P4I845PEISA/GEISA Intel 845PE/GE AGP/PCI/ISA Motherboard

- This Quick Start Guide

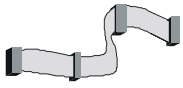
- The Installation CD-ROM



- One IDE Device ATA 100 Flat Cable

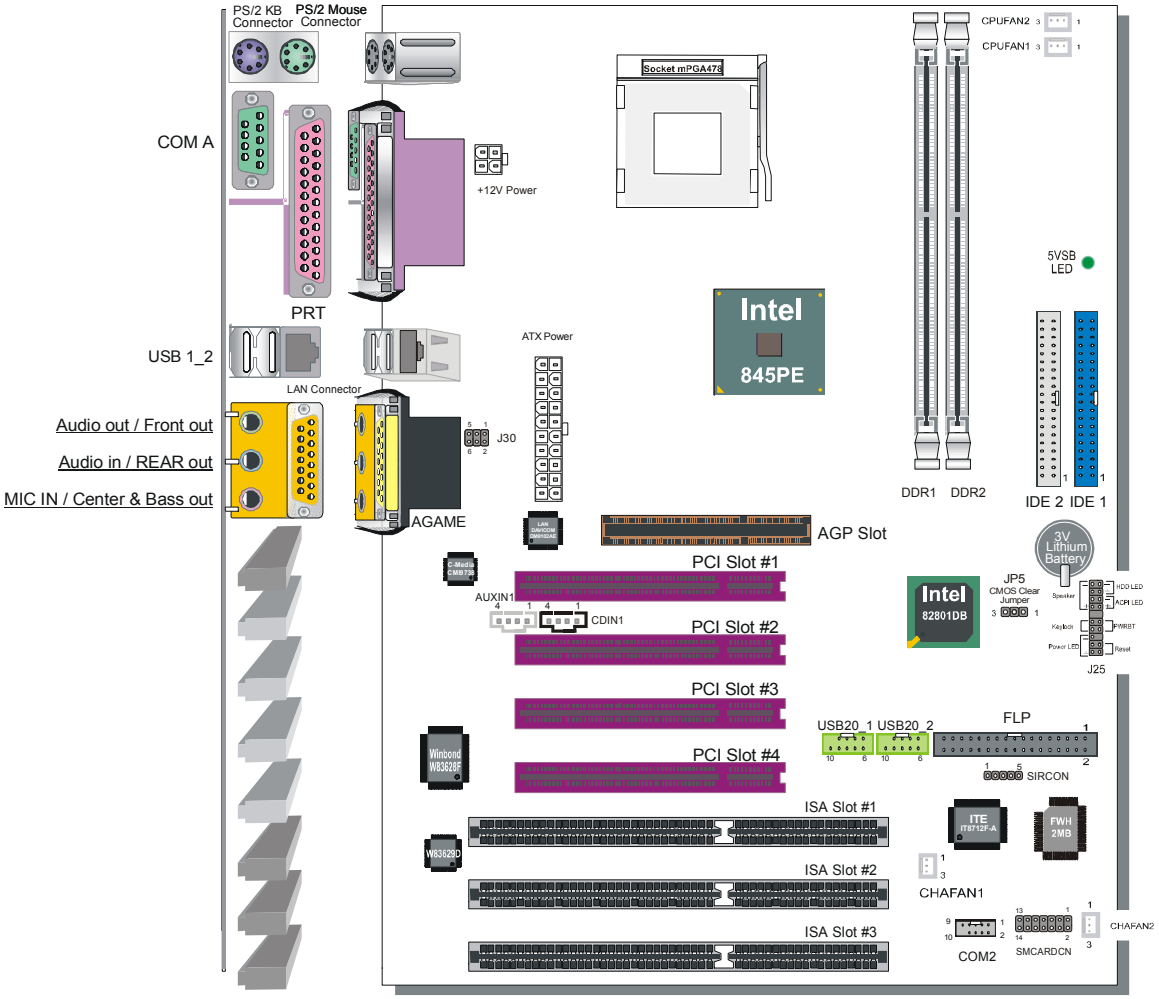


- One Floppy Disk Drive Flat Cable

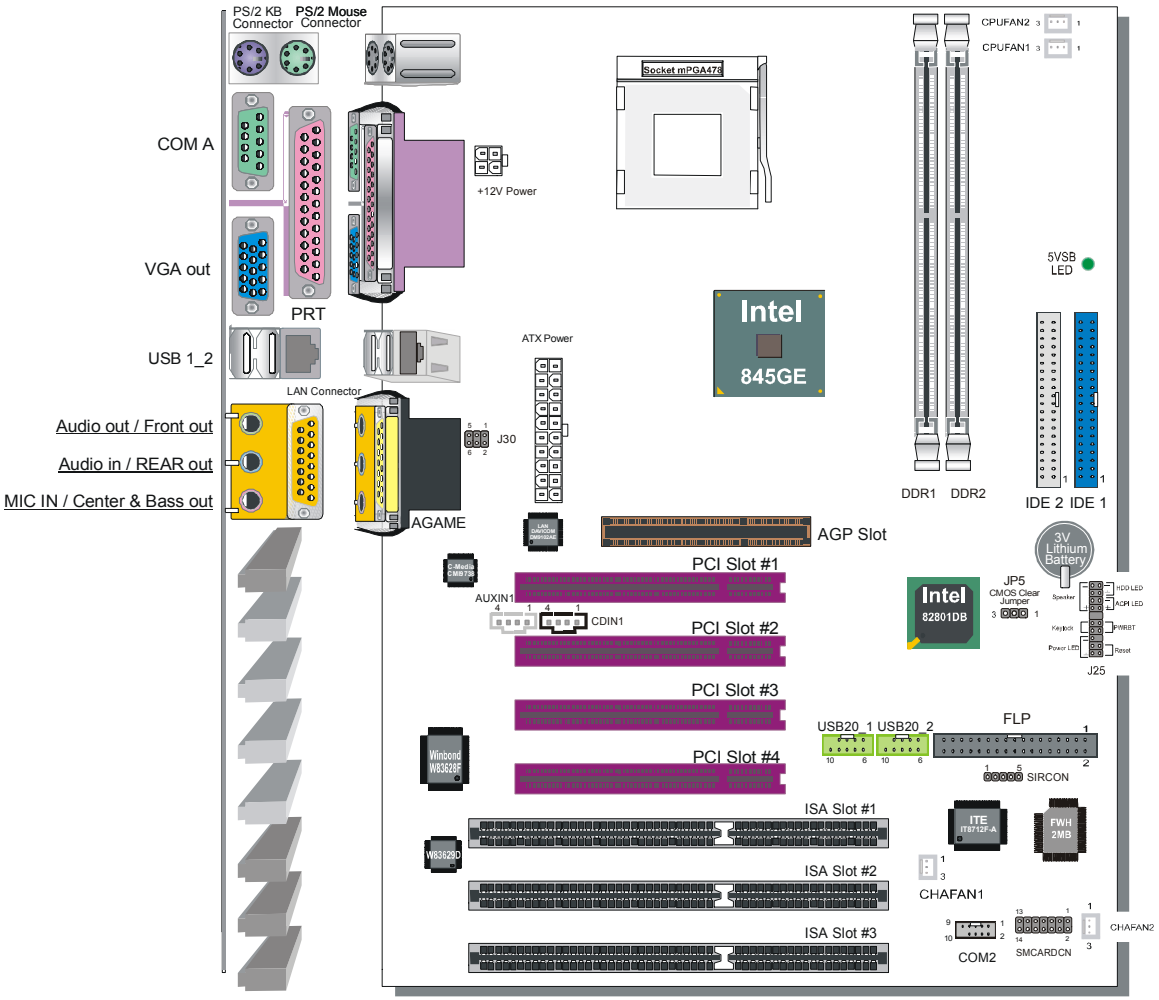


- One Back panel

SY-P4I845PEISA Motherboard Layout



SY-P4I845GEISA Motherboard Layout



Key Features

- Supports Intel® mPGA Socket 478 processors
  - Pentium® 4
  - Celeron®
- Supports 533/400 MHz Front Side Bus Frequency
- PC99, ACPI
- Ultra 33/66/100 (ATA 33/66/100)
- Supports PC1600/PC2100/2700 Unbuffer DDR Module
- Supports ACPI Suspend Indicator
- Power-on by PS/2 Keyboard
- Power failure resume
- Supports Suspend to RAM
- Supports onboard hardware monitoring and includes Hardware Doctor™ utility
- Supports AC97 4 channel Codec
- Supports multiple-boot function
- AGP 2.0 Compliant;
  AGP Connector supports:
  - 1.5V only AGP cards
  - 4X data transfer
- Smart Card Reader
  - Compliant with Personal Computer Smart Card (PC/SC) Working Group standard
- 1 x 32-bit AGP slot
- 4 x 32-bit bus master PCI slots
- 3 x 16-bit ISA slots
- 6 x USB2.0 ports onboard
- 1 x IrDA port
- Support ATX 12V power
- On-board 10/100 mbps NIC

2 Installation

To avoid damage to your Motherboard, please follow these simple rules while handling this equipment:

- Before handling the Motherboard, ground yourself by touching on to an unpainted portion of the system's metal chassis.
- Remove the Motherboard from its anti-static packaging. Hold the motherboard by the edges and avoid touching its components.
- Check the Motherboard for damage. If any chip appears to be loose, press carefully to seat it firmly in its socket.

Follow the directions in this section which is designed to guide you through a quick and correct method to install your new **SY-P4I845PEISA/GEISA** Motherboard. For detailed information, please refer to the *SY-P4I845PEISA/GEISA Motherboard User's Manual and Technical Reference* online manual on the CD-ROM that came with your Motherboard.

Gather and prepare all necessary components to complete the installation successfully:

- Socket mPGA478 processor with CPU cooling fan (boxed type)
- DDR SDRAM module(s)
- Computer case with adequate power supply unit (350W or greater)
- Monitor
- Keyboard
- Pointing Device (Mouse)
- Speaker(s) (optional)
- Disk Drives: HDD, CD-ROM, Floppy drive…
- External Peripherals: Printer and Modem (optional)
- VGA Card (AGP, PCI)

Install the Motherboard

We will now begin the installation process. Please follow the systematic procedure designed to lead you to a complete and correct installation.

Step 1- Install the Central Processing Unit (CPU)

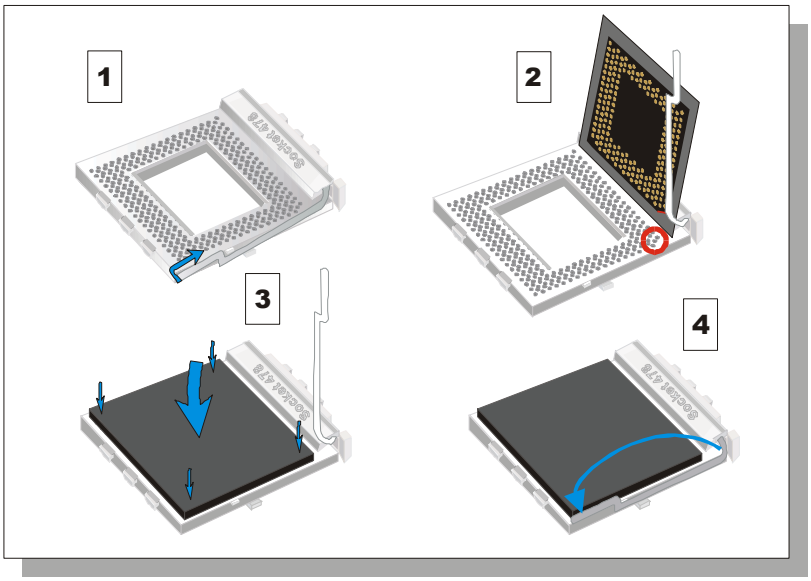
Step 2- Install memory modules

Step 3- Connect cables, case wires, and power supply Install expansion cards

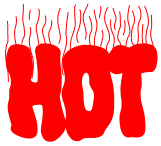
Step 4- Install expansion cards

Step 1. Install the CPU

CPU Mount Procedure: To mount the Pentium® 4 or Celeron® Socket mPGA478 processor that you have purchased separately, follow these instructions.



1. Lift the socket handle up to a vertical position.
2. Align the blunt edge of the CPU with the matching pinhole edge on the socket.
3. Seat the processor in the socket completely and without forcing.
4. Then close the socket handle to secure the CPU in place.



Remember to connect the CPU Cooling Fan to the appropriate power connector on the Motherboard. *The fan is a key component that stabilizes the system. It prevents the equipment from overheating and prolongs the life of your CPU.*

Step 2. Configure Memory

P4I845PEISA/GEISA support PC2100 & PC2700, non-ECC and non-registered module.

The largest memory capacity possible is 2GB. On this motherboard (PEISA/GEISA), DRAM speed can be set independent from the CPU front side bus speed. ***A maximum of 2 pcs. Double-sided module can be used at the same time.***

Memory Configuration Table

Number of Memory Modules	DDR1	DDR2
RAM Type	DDR RAM	
Memory Module Size (MB)	128 / 256 / 512 MB / 1GB	

Note: System must have a 533MHz FSB CPU to have PC2700 memory support.

Step 3. Connect cables, case wires, and power supply Install expansion cards

This section tells how to connect internal peripherals and the power supply to the Motherboard.

The internal peripherals consist of IDE devices (HDD, CD-ROM), Floppy Disk Drive, Chassis Fan, Front Panel Devices (ACPI LED, Internal Speaker, Reset Button, IDE LED, and KeyLock Switch.), Wake-On-LAN card, VGA card, Sound Card, and other devices.

For more details on connecting internal and external peripherals to your new SY-P4I845PEISA/GEISA Motherboard, please refer to *SY-P4I845PEISA/GEISA Motherboard User's Manual and Technical Reference* online manual on the CD-ROM.

Connectors and Plug-ins

CPU Cooling Fan: CPUFAN1		
Pin1	Pin2	Pin3
GND	+12V	Sensor

CPU Cooling Fan: CPUFAN2		
Pin1	Pin2	Pin3
GND	+12V	NC

Chassis Fan: CHAFAN1		
Pin1	Pin2	Pin3
GND	+12V	Sensor

Chassis Fan: CHAFAN2		
Pin1	Pin2	Pin3
GND	+12V	Sensor

CD-IN 1			
Pin1	Pin2	Pin3	Pin4
Left	GND	GND	Right

AUXIN1			
Pin1	Pin2	Pin3	Pin4
Left	GND	GND	Right

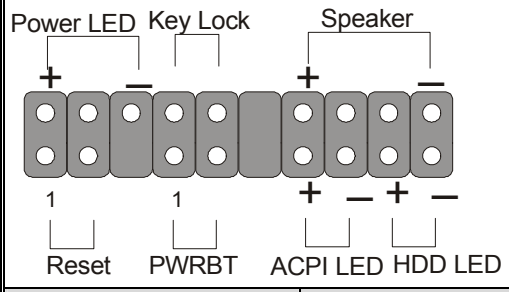
Standard IrDA (Infrared Device Header): SIRCON				
Pin1	Pin2	Pin3	Pin4	Pin5
VCC	NC	IRRX	GND	IRTX

MIC & LED Connector: J30					
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
Line_Out_L	Line_Out_R	MIC IN	GND	LAN_ACT_LED	VCC

USB20_1								
Pin1	Pin2	Pin3	Pin4	Pin6	Pin7	Pin8	Pin9	Pin10
VCC	DATA-	DATA+	GND	VCC	DATA-	DATA+	GND	GND

USB20_2								
Pin1	Pin2	Pin3	Pin4	Pin6	Pin7	Pin8	Pin9	Pin10
VCC	DATA-	DATA+	GND	VCC	DATA-	DATA+	GND	GND

SMCARDCN													
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10	Pin11	Pin12	Pin13	Pin14
VCC	NC	NC	NC	Scrfet	RST	CLK	NC	NC	Scrio	GND	Scpres	NC	NC



Power LED			Key Lock	
Pin11	Pin12	Pin13	Pin14	Pin15
VCC	GND	GND	Control Pin	GND

Speaker			
Pin17	Pin18	Pin19	Pin20
VCC	NC	NC	Speaker out

HDD LED		ACPI LED		PWRBT		RESET	
Pin9	Pin10	Pin7	Pin8	Pin4	Pin5	Pin1	Pin2
LED Anode	LED Cathode	2.5V_DDR	Control Pin	Power On/Off	GND	Control PIN	GND

Power On/Off: PWRBT

Connect your power switch to this header (momentary switch type).
To turn off the system, press this switch and hold down for longer than 4 seconds.

ATX 12V Power Supply: ATX PW
Attach the ATX 12V Power cable to three connector. (This motherboard requires an ATX 12V power supply, an AT or ATX power supply can NOT be used.) *When using the Power-On by PS/2 Keyboard function, please make sure the ATX power supply is able to provide at least 720mA on the 5V Standby lead (5VSB).*

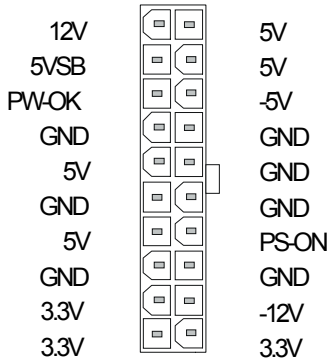
PS. Power supply must be compliant to the ATX 12V specification.

A new superset of the original ATX power supply is now defined. Named "ATX 12V," this new power supply is comprised of a standard ATX unit plus the following enhancements:

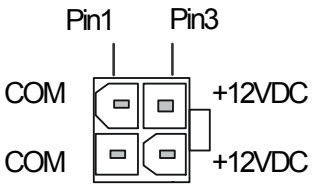
- Increased +12 VDC output capability. Motherboard components with unique voltage requirements are increasingly expected to be powered via DC/DC converters off the +12 VDC power supply output. This trend is primarily due to the higher power conversion and transmission efficiencies of +12 VDC relative to +5 VDC or +3.3 VDC. ATX12V power supplies should be designed to accommodate these increased +12 VDC current requirements and to address associated issues such as cross-regulation, capacitive loading, transient surge tolerance, cable voltage drop, and cooling.
- New +12V power connector. To enable the delivery of more +12 VDC current to the motherboard, a new 4-pin receptacle/header combination--the +12V power connector-has been defined. **The presence of the +12 V power connector indicates that a power supply is ATX12V; the absence of the +12V power connector indicates that a supply is ATX.**

Please install the ATX power according to the following pin assignment:

ATX Power



➢ **Pay special care to the directionality.**



+12V Power Connector

Step 4. Install expansion cards

The motherboard has 1 AGP slot, 4 PCI slots and 3 ISA slots.

1. Read the instruction document of the related expansion card before inserting the expansion card into the computer.
2. Press the expansion card firmly into the expansion slot on the motherboard.
3. Make sure the metal contacts on the card are correctly seated in the slot.
4. Replace the screw to secure the slot bracket of the expansion card.
5. Install related driver for the operating system you use.

Note1: **Only AGP card with 1.5 volts can be used in this M/B (any card supporting AGP 4X or higher). Using 3.3 volts AGP card (AGP 1X or 2X cards) will damage your motherboard. For AGP card voltage specification, please check the AGP card manual or contact your AGP card manufacturer.**

Note2: **When you use an AGP add-in card on the P4I845GEISA mainboard, the onboard VGA will automatically be disabled. It's not possible to use onboard VGA and an AGP add-in card at he same time. For both versions (P4I845PEISA and P4I845GEISA) note that when using a PCI VGA card, make sure that the "Init Display setting" is set to PCI slot instead of onboard/AGP. Also, note that when using a PCI VGA card the on chip VGA setup option can be used to disable onboard VGA.**

CMOS Clear (JP5)

In some cases the CMOS memory may contain wrong data, follow the steps below to clear the CMOS memory.

1. Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5. This jumper can be easily identified by its white colored cap.
2. Then put the jumper back to 1-2 to allow writing of new data into the CMOS memory.

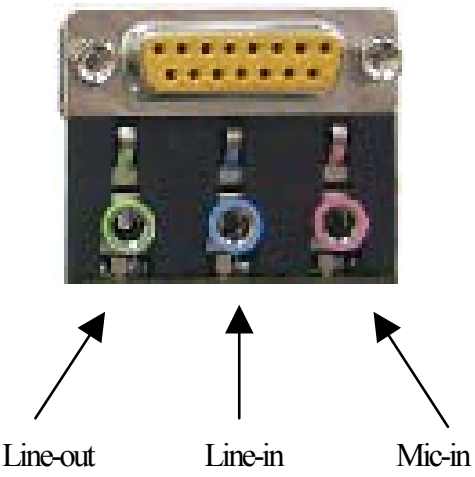
CMOS Clearing	Clear CMOS Data	Retain CMOS Data
JP5 Setting	Short pin 2-3 for at least 5 seconds to clear the CMOS	Short pin 1-2 to retain new settings
Note: You must unplug the ATX 12V power cable from the ATX 12V power connector when performing the CMOS Clear operation.		

Audio Speakers connections

When using 2-channel speaker, connect the speaker cable to line-out.

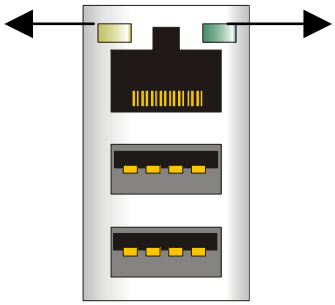
If you're using 4 channel speaker, connect **the front L/R speakers to line-out and rear L/R speakers to Line-in**. make sure to set the audio software for 4 channel speaker system. Do not forget to set the Audio Rack software to 4-channel system.

If you are using 6 channel speaker, connect the front L/R speaker to line out, rear L/R speaker to line-in and center/Bass speaker to Mic-in, make sure to set the audio software for 6 channel speaker system.



Onboard LAN LED Definition

When this LED is lit, this means the LAN is running at 100 mbps, if it is not lit, the Onboard LAN is working at 10 mbps.



This is the LAN activity LED. It will blink when it is active.

3 *Quick BIOS Setup*

After the hardware installation is complete, turn the power switch on, then press the **<DEL>** key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will be shown on the screen. Then, follow these steps to configure the CPU settings.

Step 1. Select [STANDARD CMOS SETUP]

Set [Date/Time] and [Floppy drive type], then set [Hard Disk Type] to "Auto".

Step 2. Select [LOAD OPTIMIZED DEFAULTS]

Select the "LOAD OPTIMIZED DEFAULTS" menu and type "Y" at the prompt to load the BIOS optimal setup.

Step 3. Select [SAVE & EXIT SETUP]

Press **<Enter>** to save the new configuration to the CMOS memory, and continue the boot sequence.

4 The SOYO CD

The SOYO-CD will Auto Run only in Windows Based Operating Systems.

Your SY-P4I845PEISA/GEISA motherboard comes with a CD-ROM labeled "SOYO CD". The SOYO CD contains

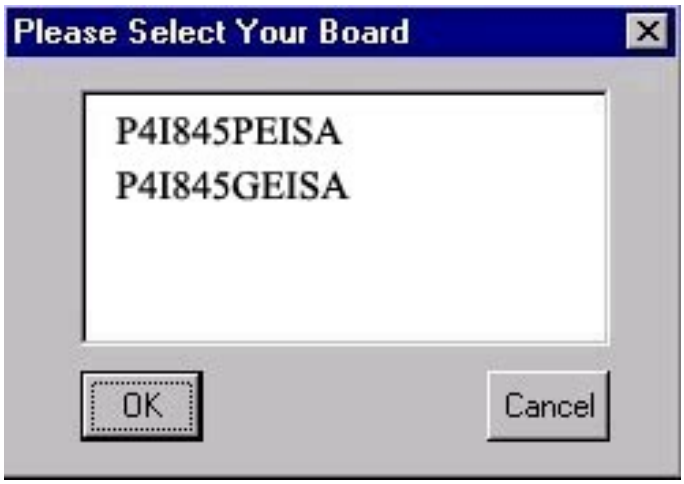
a. The user's manual for your new motherboard in PDF format,

b. The driver software needed for installation, and

c. A database in HTML format with information on SOYO motherboards and other products.

Step 1. Insert the SOYO CD into the CD-ROM drive

If you use Windows NT or 2000, the SOYO-CD will not detect your motherboard type. In that case the following dialog will pop up, please choose your motherboard and press OK. Now the SOYO-CD Start Up Menu will be shown.



(SOYO CD Start Up Program Menu)

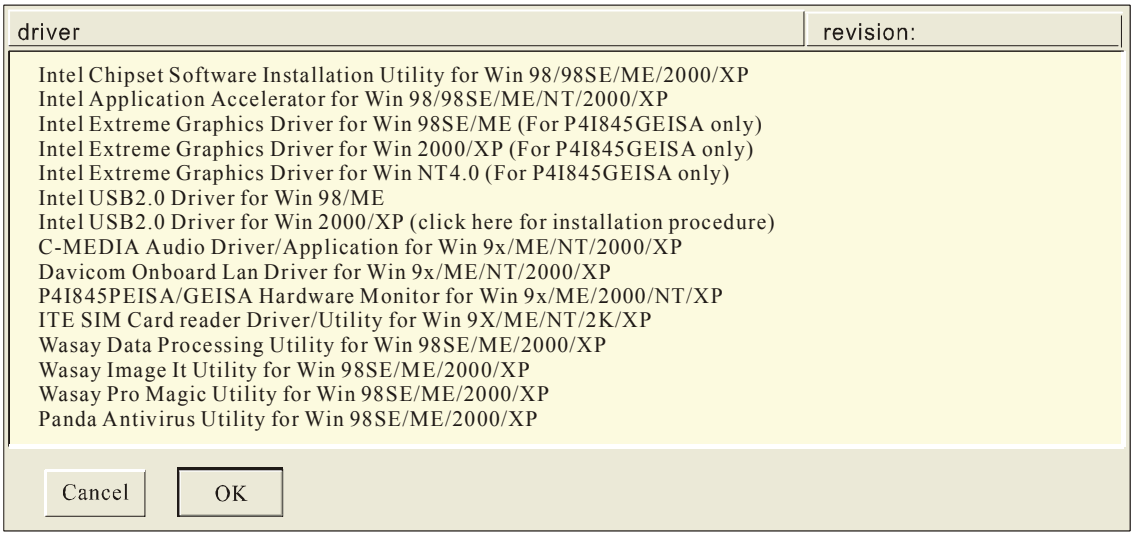
If you use Windows 95/98/98SE/ME, the SOYO CD Start Up Program automatically detects which SOYO Motherboard you own and displays the corresponding model name.

The user's manual files included on the SOYO CD are in PDF (Postscript Document Format). In order to read a PDF file, the appropriate Acrobat Reader software must be installed in your system.

Note: The Start Up program automatically detects if the Acrobat Reader utility is already present on your system, and otherwise prompts you on whether or not you want to install it. You must install the Acrobat Reader utility to be able to read the user's manual file. Follow the instructions on your screen during installation. Once the installation is completed, restart your system and re-run the SOYO CD.

Step 2. Install Drivers and Utilities

Click the ***Install Drivers*** button to display the list of driver software that can be installed for your Motherboard. The Start Up program displays the drivers available for the particular model of Motherboard you own. We recommend that you only install those drivers.


driver
revision:
Intel Chipset Software Installation Utility for Win 98/98SE/ME/2000/XP
Intel Application Accelerator for Win 98/98SE/ME/NT/2000/XP
Intel Extreme Graphics Driver for Win 98SE/ME (For P4I845GEISA only)
Intel Extreme Graphics Driver for Win 2000/XP (For P4I845GEISA only)
Intel Extreme Graphics Driver for Win NT4.0 (For P4I845GEISA only)
Intel USB2.0 Driver for Win 98/ME
Intel USB2.0 Driver for Win 2000/XP (click here for installation procedure)
C-MEDIA Audio Driver/Application for Win 9x/ME/NT/2000/XP
Davicom Onboard Lan Driver for Win 9x/ME/NT/2000/XP
P4I845PEISA/GEISA Hardware Monitor for Win 9x/ME/2000/NT/XP
ITE SIM Card reader Driver/Utility for Win 9X/ME/NT/2K/XP
Wasay Data Processing Utility for Win 98SE/ME/2000/XP
Wasay Image It Utility for Win 98SE/ME/2000/XP
Wasay Pro Magic Utility for Win 98SE/ME/2000/XP
Panda Antivirus Utility for Win 98SE/ME/2000/XP
Cancel
OK

(Driver Installation Menu)

A short description of all available drivers follows:

- **Intel Chipset Software Installation Utility for Win 98/98SE/ME/2000/XP**

Windows 95 and 98 will not recognize the new INTEL 845PE/GE chipset properly. To update the necessary .inf files that will help Windows recognize the 845PE/GE chipset, please run this utility.

- **Intel Application Accelerator for Win 98/98SE/ME/NT/2000/XP**

The Intel(R) Application Accelerator is designed to improve performance of the IDE sub-system and overall system performance. Several components will be available only on Pentium(R) 4 processor-based systems running Microsoft Windows 2000 Professional. Software installation is flexible and fully automated for Microsoft Windows 98, Windows 98 Second Edition(SE), Windows 98 Millennium Edition(Me), Windows NT 4.0, and Windows 2000 operating systems.

- **Intel Extreme Graphics Driver for Win 98SE/ME/2000/XP/NT (For P4I845GEISA only)**

This setup program will install the Driver for Intel Extreme Graphics.

- **Intel USB20 Driver for Win 98/ME**

This setup program will install the driver for Intel USB2.0 Host Controller. If you don't, your USB controller only works with USB1.1 devices. For Windows XP service pack 1 should be installed. For Windows 2000 you can download this through Windows update.

- **C-MEDIA Audio Driver/Application for Win 9x/ME/2000/NT/XP**

1. The driver supports 2/4 speakers 3D positional audio.

2. The application includes the ***CD Player/MIDI Player/MP3/Wave Player/Mixer*** *to* control your PC's audio functions.

- **Davicom Onboard Lan Driver for Win 9x/ME/NT/2000/XP**

This setup program will install the Driver for Davicom Onboard Lan.

- **P4I845PEISA/GEISA Hardware Monitor fir Win 9x/ME/2000/NT/XP**

Your motherboard comes with a hardware monitoring IC. By installing this utility Temperature, Fan speed and Voltages can be monitored.

- **ITE SIM card reader Driver/Utility for Win 9X/ME/NT/2K/XP**

Driver to support the smart card reader. You need to install this if you use the SCR.

- **Wasay Data Processing Utility for Win 98SE/ME/2000/XP**

Wasay Data Processing Utility is an instant file restoration program that not only provides convenient & instant file recovery but also helps to manage your files.

- **Wasay Image It Utility for Win 98SE/ME/2000/XP**

Data Image software

- **Wasay Pro Magic Utility for Win 98SE/ME/2000/XP**

ProMagic is an instant system recovery software that provides convenient instant restoration to the preferred state at any specific restore time point as desired.

- **Panda Anti Virus Utility for Win 98SE/ME/2000/XP**

Anti Virus software for Windows 98SE/ME/2000/XP

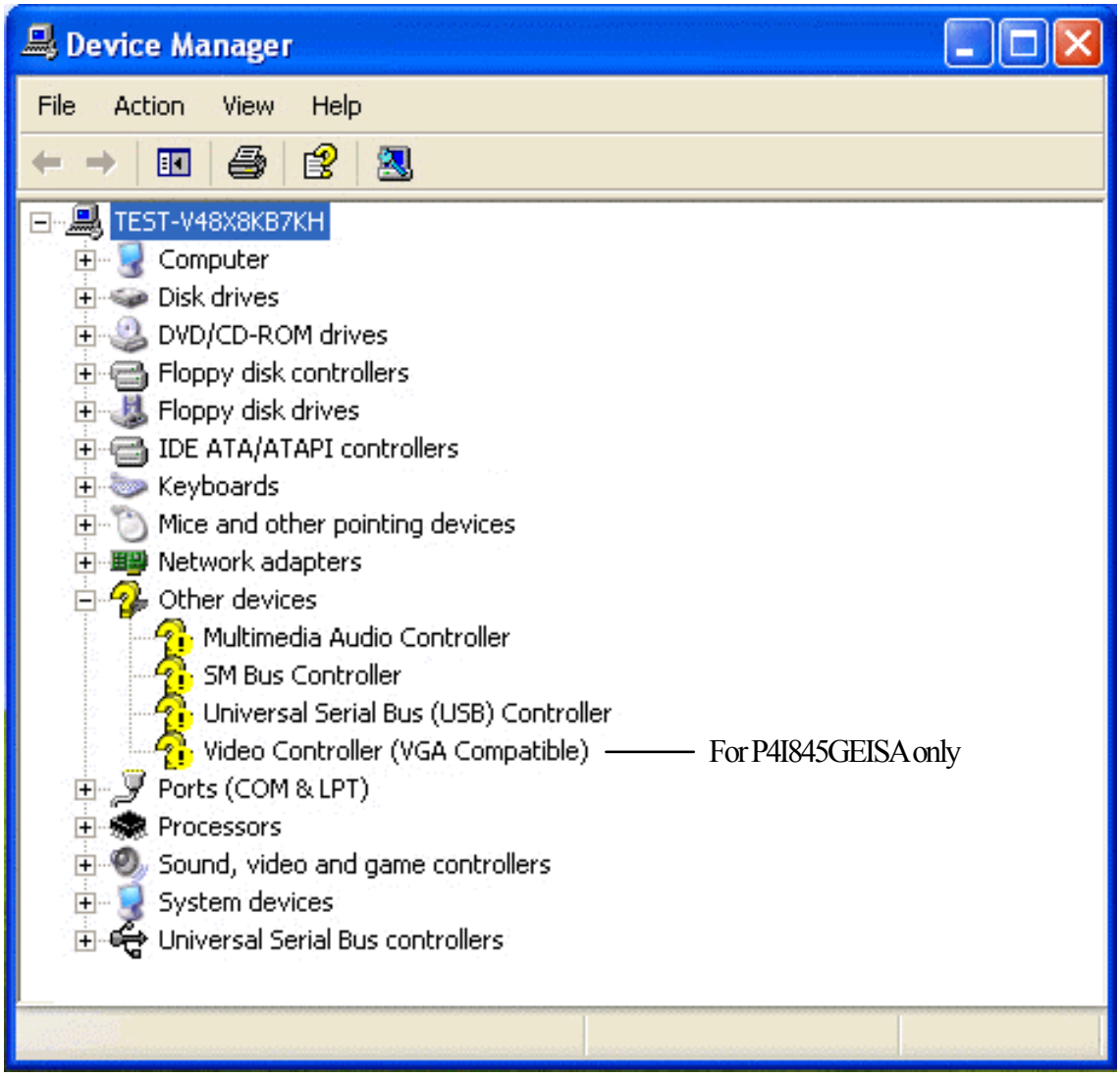
Select which driver you want to install and click ***OK,*** or click ***Cancel*** to abort the driver installation and return to the main menu.

Note : Once you have selected a driver, the system will automatically exit the SOYO CD to begin the driver installation program. When the installation is complete, most drivers require restart or your system before they become active.

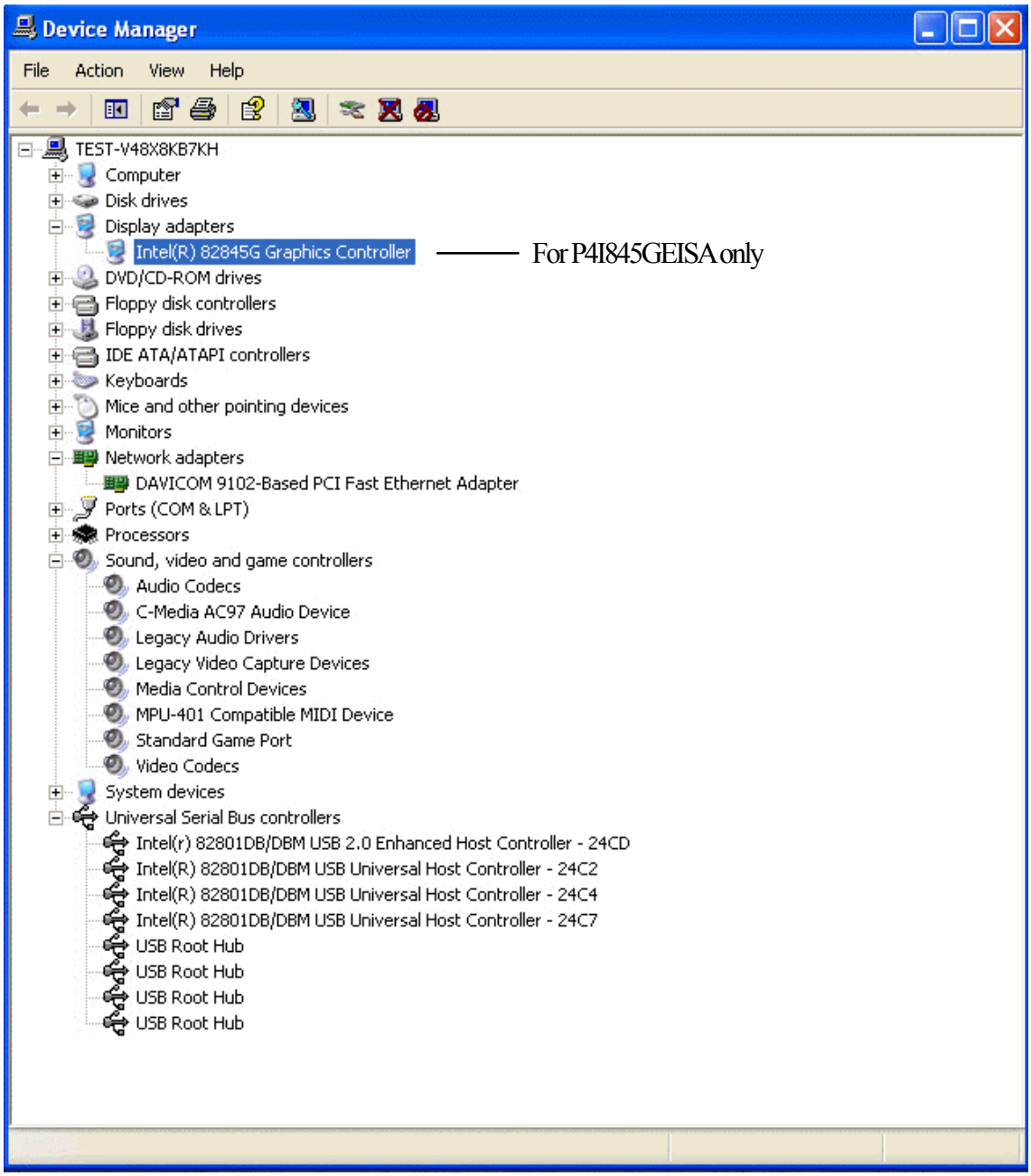
Step 3. Check the Latest Releases

Click the 'Connect to SOYO website' button to go the SOYO Website to find the latest BIOS, manual and driver releases for your motherboard. This button will only work if your computer is connected to the internet through a network or modem connection. Make sure to get your internet connection up before clicking this button.

After Windows XP installation, your device manager should look like this:

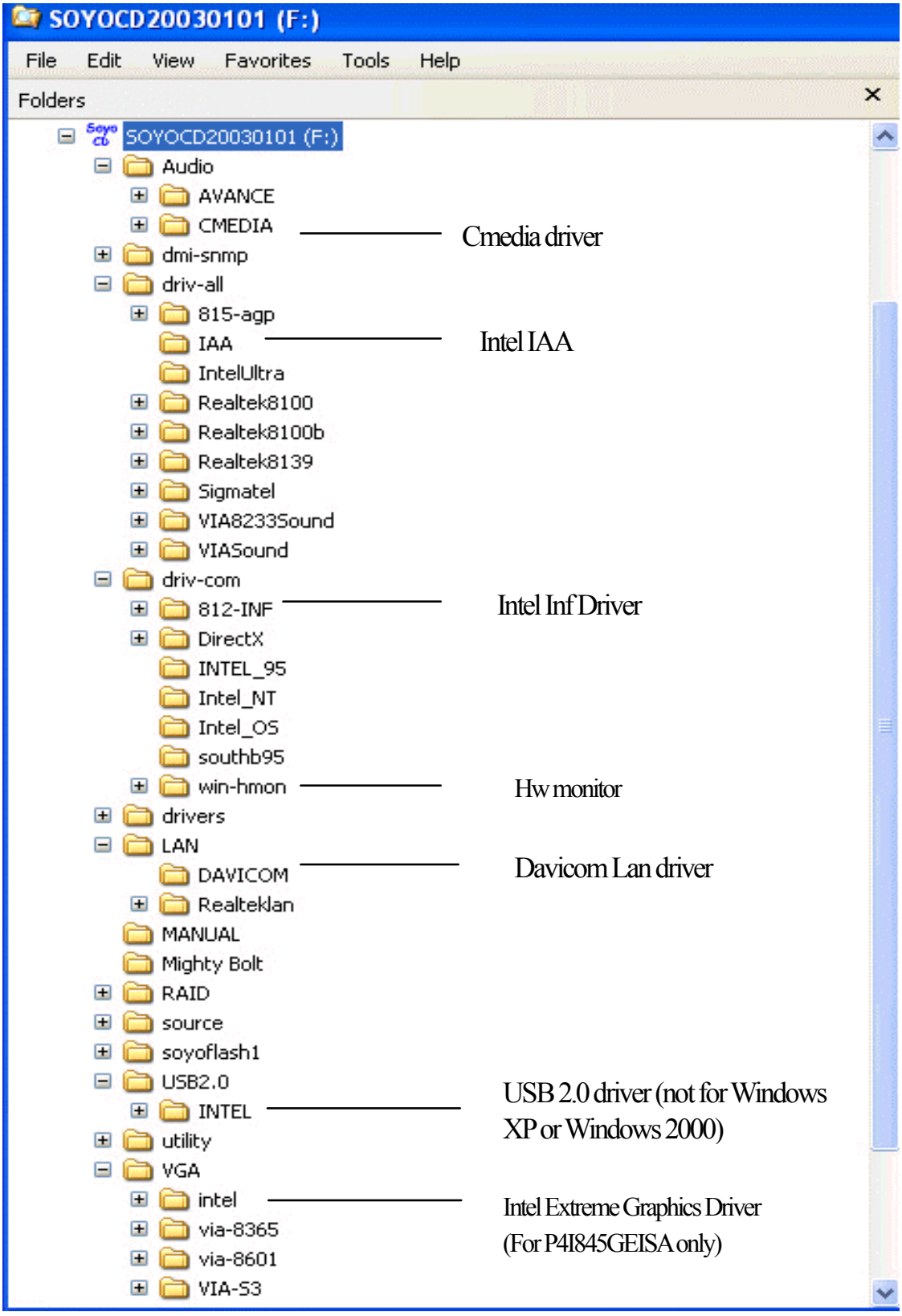


After driver installation, your Windows XP device manager should look like this:



Note: To install the USB 2.0 driver, please update to Windows XP service pack 1

Drivers directory list in the CD driver



5 USB2.0 Driver Installation

For Windows 2000 and Windows XP

USB 2.0 Drivers are available for download using Windows Update for both Windows XP and Windows 2000.

For additional information regarding USB 2.0 support in Windows XP and Windows 2000, please visit http://www.microsoft.com/hwdev/bus/USB/default.asp

Quick Trouble shoot tips

Boot-up Issues

The system does not power-up, no beeping sound heard and the CPU fan does not turn on.

1. Check if the power cord is plug to the power source.
2. Check if the power is connected to the M/B.
3. Check if the cable of the case power button is connected to the M/B power button connector (see connectors and plug-ins in the manual for more info).
4. Make sure the power supply is not defective. Change the power supply. The minimum should be 350 watts.
5. Remove the M/B from the case and test the system. The M/B might be shorted to the case.
6. Make sure your power supply is ATX 12V compliant.

The system power-up, no video, no beeping sound heard, but the CPU fan is turning.

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. Check all the jumper settings on the M/B. (if the M/B have any).
3. Check if the CPU is ok by using another CPU (check the Quick start guide for CPU supported on this M/B).
4. Check if the power supply is ok. The minimum should be 350 watts.
5. Make sure the CPU fan is connected to CPUFAN1 connector.
6. Remove the M/B from the case and test the system. The M/B might be shorted to the case.
7. Change the VGA card. If you have used a 3.3V AGP card, the M/B might be damaged.

The system power-up, no video, beeping heard.

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. Check all the jumper settings on the M/B. (if the M/B has any).
3. Check the memory module and the VGA card if they are inserted properly in the M/B.
4. If yes, change the memory module, it might be defective. Make sure the memory specification is supported by the M/B. (for more info on this, check our FAQ website).
5. Change the VGA card. Make sure the AGP card is 1.5v

The system turns on for some seconds then shutdown by itself.

1. Check if the CPU fan is connected to the CPUFAN1 connector.
2. The CPU might be overheating. Check the CPU FAN if it is defective or see if the CPU fan is in contact with the CPU.
3. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
4. Make sure the power supply you have on your system supports the M/B specification. Example. If you have a P4 M/B, you need to use a P4 power supply.
5. If you already checked the power supply specification, change the power supply it might be defective. The minimum is 350 watts.

When I boot up my system, everything works fine, it sees my CPU and memory, detects my hard drive, floppy drive and CD-ROM but locks up at "Verify DMI pool data... ". Don't go any further. What should I do?

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. If still has the problem, remove all other add-on cards except video card see if it move further. Then put peripherals in one by one to identify which one cause the lockup.
3. Change the CPU.

During Boot-up, my computer says CMOS memory Checksum error. What is the problem?

1. Clear CMOS memory.
2. Re-flash BIOS. Check on how to flash BIOS on the later part of this book.
3. Change the CMOS battery, the battery might be drained.
4. The BIOS chip might be failing.

Stability Issue

My system intermittently locks up, very unstable.

1. Check the CPU Temp, it might be overheating. Change the CPU FAN.
2. Do not over clock your CPU
3. Check the specification of the memory module, maybe the M/B does not support it.
4. Go to BIOS setup and load fail safe settings. Please check if the system performance in the BIOS setup is set to Turbo/Maximum.
5. Check website for latest BIOS update.
6. Check website for FAQ's regarding instability issue.
7. Change the memory module or CPU.
8. The power supply might not have enough wattage to support all the peripherals. If your

system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.

9. Install Intel Inf driver.

My system intermittently locks up, during Windows installation.

1. Go to BIOS and load “load optimized defaults”.
2. Check website for any BIOS update.
3. If still has the problem, remove all other add-on cards except CPU/ Memory/ Video card/Hard disk. See if you can finish Windows installation. Then put peripherals in one by one to identify which one causes the lockup.

BIOS Issue

Where can I find the BIOS revision of my mainboard?

It will be displayed on the up-left corner on the screen during boot-up. It will show as your board type followed by the revision number, such as kvxa_2BA1 (meaning BIOS revision 2BA1 for the SY-K7V Dragon plus! board) or 6BA+ IV_2AA2 which means SY-6BA+ IV motherboard with 2AA2 BIOS.

Where can I find the latest BIOS for my motherboard?

Please go to the technical support page of one of the SOYO websites (Taiwan: www.soyo.com.tw; USA: http://www.soyousa.com/), and look up your motherboard to find the latest BIOS revision.

How can I flash the BIOS?

1. Download the BIOS from our support website.
2. Make a bootable floppy disk with out any memory manager loaded (i.e. himem, emm386, etc…).
3. Copy the BIOS file and awdflash utility to the diskette.
4. Type "awdflash biosname.bin /sn /py".
5. Then reboot.

After flashing the BIOS, my system will not boot-up.

1. Try clearing the CMOS.
2. The BIOS chip is defective due to an unsuccessful flash, contact your nearest SOYO branch for re-flashing.

Is there a way to reprogram my BIOS after an unsuccessful flash?

No other way, you need to send back the BIOS ROM to your nearest SOYO branch for re-flashing.

I'm using a 400MHz FSB CPU, I cannot find the DDR 166MHz option in the BIOS, why?

The CPU used should be 133MHz FSB to have PC2700 support.

VGA Issue

I cannot set my VGA to go higher than 16 color (640x 480).

1. Make sure that you have installed the Intel Inf driver.
2. Install/ re-install the VGA driver.

After wake-up from Suspend to RAM or Standby mode, the screen has no display but I can hear the hard disk operating

Check your VGA card's manufacturer for a driver update, or make sure the VGA card supports the Suspend to Ram function.

Audio Issue

How can I disable the on-board Audio?

Go to the SOYO Combo Feature in the BIOS setup, then set the "onboard audio" to disable.

I cannot get the sound working on my system.

1. Check if the speaker wire is connected to the line out connector in the M/B.
2. Check if the speaker power is powered on.
3. Install the audio driver supplied on our driver disc.
4. Check BIOS setup if "onboard audio" is enabled.
5. If sound already installed, check our website for audio driver update.

The sound is working in my system, but when I play CD music from the CD-ROM, I do not get any sound. What is wrong?

This is because the 3-wire audio cable from the CD-ROM to the on-board CDIN1 connector in the M/B is not connected. See manual for location of CDIN1.

The sound from my sound card is distorted when Windows start. What is wrong?

If you are using an ISA sound card, please make sure the IRQ needed for the sound card is set to 'Legacy ISA' in the bios. In other word, if your ISA sound card takes IRQ5, then set IRQ5 to 'Legacy ISA'.

The sound and everything else works fine except that the recorder and microphone do not work. What is wrong?

1. Please go to sound properties and check if the recorder and microphone in the are enabled.
2. Check if Microphone is ok.

Added PCI Audio Card does not work on this motherboard.

1. Go to SOYO COMBO Setup and Disable “onboard audio”.
2. Go to integrated peripherals and Disable “Game port address” and “Midi port address”.

Hard disk/FDD/ CD-ROM issue

My Western digital HDD is not detected during boot-up

Change the jumper settings to cable select or single.

Sometimes the system finds my CD-ROM, sometimes not

1. Check CD-ROM if it is working properly.
2. The power supply might not have enough wattage to support all the peripherals. If your system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.

When I boot up my new computer I got "floppy boot failure" and the LED on the floppy stays on

Make sure the red wire of floppy ribbon cable goes to Pin1 on the floppy drive side (don't trust the "key lock" or "notch") and use the end-connector of the cable (don't use middle one).

LAN Issues

During LAN driver installation, the system hangs on 75%, why?

Enable the onboard LAN in the BIOS setup.

I have problems installing Novell NetWare v.50

Disable the APIC option in the BIOS.

For updated FAQs, please check http://www.soyo.com.tw/faq.htm **or** http://www.soyousa.com/faqs.html

How to contact us:

- If you are interested in our products, please contact the SOYO sales department in the region you live.
- If you require Technical Assistance, please contact our Technical Support in the region you live.

SOYO prefers Email as communication medium, remember to *always add to the email the country that you live in*.

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